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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-45
Perfect score: 20
Sequence: 1 tccataacgttcctgatgct 20
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 727826 seqs, 323139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:
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25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9 US-09-824-468-49	Sequence 49, Appl
2	20	100.0	20	9 US-09-800-266A-43	Sequence 43, Appl
3	20	100.0	20	9 US-09-895-007A-43	Sequence 43, Appl
4	20	100.0	20	9 US-09-920-313-43	Sequence 43, Appl
5	20	100.0	20	10 US-09-888-326-545	Sequence 545, App
6	20	100.0	20	10 US-09-818-918-3	Sequence 3, Appli
7	20	100.0	20	10 US-09-818-918-45	Sequence 45, Appl

8	20	100.0	20	10 US-09-931-583-42	Sequence 42, Appl
9	20	100.0	20	10 US-09-776-479-777	Sequence 777, App
10	20	100.0	20	10 US-09-954-987B-77	Sequence 77, Appl
11	20	100.0	20	11 US-09-874-991C-44	Sequence 44, Appl
12	20	100.0	20	11 US-09-874-991C-110	Sequence 110, App
13	20	100.0	20	11 US-09-874-991C-133	Sequence 133, App
14	20	100.0	20	11 US-09-874-991C-161	Sequence 161, App
15	20	100.0	20	11 US-09-874-991C-182	Sequence 182, App
16	20	100.0	20	11 US-09-874-991C-207	Sequence 207, App
17	20	100.0	20	11 US-09-776-479-777	Sequence 777, App
18	20	100.0	20	13 US-10-023-909A-43	Sequence 43, Appl
19	20	100.0	20	14 US-10-112-653-750	Sequence 750, App
20	20	100.0	20	14 US-10-017-995-777	Sequence 777, App
21	20	100.0	20	14 US-10-300-247-43	Sequence 43, Appl
22	20	100.0	20	15 US-10-161-229-44	Sequence 44, Appl
23	20	100.0	20	16 US-10-187-264A-3	Sequence 3, Appli
24	20	100.0	20	16 US-10-265-072-78	Sequence 78, Appl
25	20	100.0	20	16 US-10-306-522-3	Sequence 3, Appli
26	20	100.0	20	17 US-10-314-578-777	Sequence 777, App
27	20	100.0	20	17 US-10-434-696-43	Sequence 43, Appl
28	20	100.0	20	18 US-10-373-381-36	Sequence 36, Appl
29	20	100.0	20	18 US-10-719-493-3	Sequence 3, Appli
30	20	100.0	20	19 US-10-627-331-3	Sequence 3, Appli
31	20	100.0	20	19 US-10-666-733-43	Sequence 43, Appl
32	20	100.0	20	19 US-10-743-625-3	Sequence 3, Appli
33	20	100.0	20	19 US-10-743-625-45	Sequence 45, Appl
34	20	100.0	20	19 US-10-769-282-3	Sequence 3, Appli
35	20	100.0	20	19 US-10-769-282-45	Sequence 45, Appl
36	20	100.0	20	19 US-10-817-165-3	Sequence 3, Appli
37	20	100.0	20	19 US-10-817-165-45	Sequence 45, Appl
38	20	100.0	20	20 US-10-877-407-33	Sequence 33, Appl
39	20	100.0	20	20 US-10-877-369-36	Sequence 36, Appl
40	20	100.0	20	20 US-10-816-220-43	Sequence 43, Appl
41	20	100.0	20	20 US-10-831-778-777	Sequence 777, App
42	20	100.0	20	20 US-10-876-892-36	Sequence 36, Appl
43	20	100.0	20	20 US-10-876-965-36	Sequence 36, Appl
44	20	100.0	20	20 US-10-888-886-43	Sequence 43, Appl
45	20	100.0	20	21 US-10-847-642-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-824-468-49
; Sequence 49, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-49

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20

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Db          1  TCCATAACGTTCTCTGATGCT 20
|||||
RESULT 2
US-09-800-266A-43
; Sequence 43, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-43

Query Match          100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1  TCCATAACGTTCTCTGATGCT 20
|||||
Db          1  TCCATAACGTTCTCTGATGCT 20
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RESULT 3
US-09-895-007A-43
; Sequence 43, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-43

Query Match          100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1  TCCATAACGTTCTCTGATGCT 20
|||||
Db          1  TCCATAACGTTCTCTGATGCT 20
|||||

RESULT 4
US-09-895-007A-43
; Sequence 43, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-43

Query Match          100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1  TCCATAACGTTCTCTGATGCT 20
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Db          1  TCCATAACGTTCTCTGATGCT 20
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US-09-920-313-43
; Sequence 43, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-43

Query Match          100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1  TCCATAACGTTCTCTGATGCT 20
|||||
Db          1  TCCATAACGTTCTCTGATGCT 20
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RESULT 5
US-09-888-326-545
; Sequence 545, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 545
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-545

Query Match          100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1  TCCATAACGTTCTCTGATGCT 20
|||||
Db          1  TCCATAACGTTCTCTGATGCT 20
|||||

RESULT 6
US-09-818-918-3
; Sequence 3, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
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; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-3

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTGTGCT 20

RESULT 7

US-09-818-918-45
; Sequence 45, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-45

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTGTGCT 20

RESULT 8

US-09-931-583-42

; Sequence 42, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053(HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-42

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTGTGCT 20

RESULT 9

US-09-776-479-777
; Sequence 777, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 777
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-777

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTGTGCT 20
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Db 1 TCCATAACGTTCTGTGCT 20

RESULT 10

US-09-954-987B-77

; Sequence 77, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:

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; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CpG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-77
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Query Match          100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 TCCATAACGTTCTCTGATGCT 20
        |||||
Db       1 TCCATAACGTTCTCTGATGCT 20
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RESULT 11
US-09-874-991C-44
; Sequence 44, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-44
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Query Match          100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 TCCATAACGTTCTCTGATGCT 20
        |||||
Db       1 TCCATAACGTTCTCTGATGCT 20
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RESULT 12
US-09-874-991C-110
; Sequence 110, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
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; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-110
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Query Match          100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 TCCATAACGTTCTCTGATGCT 20
        |||||
Db       1 TCCATAACGTTCTCTGATGCT 20
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RESULT 13
US-09-874-991C-133
; Sequence 133, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-133
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Query Match          100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 TCCATAACGTTCTCTGATGCT 20
        |||||
Db       1 TCCATAACGTTCTCTGATGCT 20
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RESULT 14
US-09-874-991C-161
; Sequence 161, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
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; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 161
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-161

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Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 TCCATAACGTTCTGATGCT 20
        |||||
Db      1 TCCATAACGTTCTGATGCT 20

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RESULT 15
US-09-874-991C-182
; Sequence 182, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 182
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-182

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Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 TCCATAACGTTCTGATGCT 20
        |||||
Db      1 TCCATAACGTTCTGATGCT 20

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Job time : 430.125 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-45
Perfect score: 20
Sequence: 1 tccataacgttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-3
2	20	100.0	20	3	US-08-738-652-45
3	20	100.0	20	3	US-09-286-098-49
4	20	100.0	20	3	US-08-960-774-3
5	20	100.0	20	3	US-09-325-193A-43
6	20	100.0	20	3	US-09-191-170-44
7	20	100.0	20	4	US-09-296-477-18
8	20	100.0	20	4	US-09-337-619-3
9	18.4	92.0	20	2	US-09-133-774-11
10	18.4	92.0	20	3	US-08-386-063-25
11	18.4	92.0	20	3	US-09-303-862-11
12	18.4	92.0	20	3	US-08-386-063-25
13	18.4	92.0	20	3	US-08-738-652-7
14	18.4	92.0	20	3	US-08-738-652-35
15	18.4	92.0	20	3	US-08-738-652-44
16	18.4	92.0	20	3	US-08-738-652-54
17	18.4	92.0	20	3	US-09-286-098-24
18	18.4	92.0	20	3	US-08-960-774-7
19	18.4	92.0	20	3	US-08-960-774-88
20	18.4	92.0	20	3	US-09-082-649B-68
21	18.4	92.0	20	3	US-09-082-649B-79
22	18.4	92.0	20	3	US-09-325-193A-19
23	18.4	92.0	20	3	US-09-191-170-24
24	18.4	92.0	20	3	US-09-171-425-5
25	18.4	92.0	20	3	US-09-171-425-14
26	18.4	92.0	20	4	US-09-690-921-5
27	18.4	92.0	20	4	US-09-791-500-7

28	18.4	92.0	20	4	US-09-337-619-7	Sequence 7, Appli
29	18.4	92.0	20	4	US-09-965-101-68	Sequence 68, Appl
30	18.4	92.0	20	4	US-09-965-101-79	Sequence 79, Appl
31	18.4	92.0	29	3	US-08-848-229-2	Sequence 2, Appli
32	18.4	92.0	29	4	US-09-022-965-2	Sequence 2, Appli
33	17.4	87.0	19	4	US-09-770-602-1	Sequence 1, Appli
34	17.4	87.0	19	4	US-09-770-602-2	Sequence 2, Appli
35	17.4	87.0	19	4	US-09-770-602-3	Sequence 3, Appli
36	17.4	87.0	19	4	US-09-770-602-4	Sequence 4, Appli
37	17.4	87.0	19	4	US-09-770-602-5	Sequence 5, Appli
38	17.4	87.0	19	4	US-09-770-602-6	Sequence 6, Appli
39	17.4	87.0	19	4	US-09-770-602-7	Sequence 7, Appli
40	17.4	87.0	19	4	US-09-770-602-8	Sequence 8, Appli
41	17.4	87.0	20	4	US-09-296-477-19	Sequence 19, Appl
42	16.8	84.0	20	3	US-08-738-652-9	Sequence 9, Appli
43	16.8	84.0	20	3	US-08-738-652-40	Sequence 40, Appl
44	16.8	84.0	20	3	US-08-738-652-43	Sequence 43, Appl
45	16.8	84.0	20	3	US-08-738-652-46	Sequence 46, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-3
; Sequence 3, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 2
US-08-738-652-45
; Sequence 45, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-45

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATAACGTTCTCTGATGCT 20
      |||||||
Db      1 TCCATAACGTTCTCTGATGCT 20

RESULT 3
US-09-286-098-49
; Sequence 49, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATAACGTTCTCTGATGCT 20
      |||||||
Db      1 TCCATAACGTTCTCTGATGCT 20

RESULT 4
US-08-960-774-3
; Sequence 3, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
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; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-3

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATAACGTTCTCTGATGCT 20
      |||||||
Db      1 TCCATAACGTTCTCTGATGCT 20

RESULT 5
US-09-325-193A-43
; Sequence 43, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-43

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATAACGTTCTCTGATGCT 20
      |||||||
Db      1 TCCATAACGTTCTCTGATGCT 20

RESULT 6
US-09-191-170-44
; Sequence 44, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
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; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 7

US-09-296-477-18
; Sequence 18, Application US/09296477A
; Patent No. 6589940
; GENERAL INFORMATION:
; APPLICANT: RAZ, E.
; APPLICANT: SCHWARTZ, D.
; APPLICANT: ROMAN, M.
; APPLICANT: DINA, D.
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGONUCLEOTIDES,
; TITLE OF INVENTION: COMPOSITIONS THEREOF AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 37782000420
; CURRENT APPLICATION NUMBER: US/09/296,477A
; CURRENT FILING DATE: 1999-04-22
; EARLIER APPLICATION NUMBER: 09/092,329
; EARLIER FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: 60/048,793
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-09-296-477-18

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 8

US-09-337-619-3
; Sequence 3, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-3

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 9

US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 10


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; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.00
; SEQ ID NO 7

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Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels

Qy

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D6

1	TCCATGACGTTCTTGATGCT	20

RESULT 14

US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||

Db 1 TCCATGACGTTCTCTGATGCT 20
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RESULT 15

US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646

; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide
 US-08-738-652-44

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20
|||||
pb 1 TCCATGACGTTCTCTGATGCT 20

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Job time : 77 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
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300.670 Million cell updates/sec

Title: US-09-818-918-44
Perfect score: 20
Sequence: 1 tccatgacgttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 727826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
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23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*

24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*

25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*

26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9 US-09-791-500-7	Sequence 7, Appli
2	20	100.0	20	9 US-09-824-468-24	Sequence 24, Appli
3	20	100.0	20	9 US-09-800-266A-19	Sequence 19, Appli
4	20	100.0	20	9 US-09-846-091-4	Sequence 4, Appli
5	20	100.0	20	9 US-09-895-007A-19	Sequence 19, Appli
6	20	100.0	20	9 US-09-920-313-19	Sequence 19, Appli
7	20	100.0	20	10 US-09-415-142-25	Sequence 25, Appli

8	20	100.0	20	10 US-09-888-326-127	Sequence 127, App
9	20	100.0	20	10 US-09-888-326-566	Sequence 566, App
10	20	100.0	20	10 US-09-888-326-567	Sequence 567, App
11	20	100.0	20	10 US-09-818-918-7	Sequence 7, Appli
12	20	100.0	20	10 US-09-818-918-35	Sequence 35, Appli
13	20	100.0	20	10 US-09-818-918-44	Sequence 44, Appli
14	20	100.0	20	10 US-09-818-918-54	Sequence 54, Appli
15	20	100.0	20	10 US-09-931-583-25	Sequence 25, Appli
16	20	100.0	20	10 US-09-931-583-48	Sequence 48, Appli
17	20	100.0	20	10 US-09-776-479-758	Sequence 758, App
18	20	100.0	20	10 US-09-776-479-806	Sequence 806, App
19	20	100.0	20	10 US-09-776-479-865	Sequence 865, App
20	20	100.0	20	10 US-09-954-987B-84	Sequence 84, Appli
21	20	100.0	20	10 US-09-954-987B-207	Sequence 207, App
22	20	100.0	20	10 US-09-967-464-7	Sequence 7, Appli
23	20	100.0	20	11 US-09-874-991C-27	Sequence 27, Appli
24	20	100.0	20	11 US-09-874-991C-93	Sequence 93, Appli
25	20	100.0	20	11 US-09-874-991C-114	Sequence 114, App
26	20	100.0	20	11 US-09-874-991C-138	Sequence 138, App
27	20	100.0	20	11 US-09-874-991C-165	Sequence 165, App
28	20	100.0	20	11 US-09-874-991C-186	Sequence 186, App
29	20	100.0	20	11 US-09-874-991C-406	Sequence 406, App
30	20	100.0	20	11 US-09-874-991C-425	Sequence 425, App
31	20	100.0	20	11 US-09-776-479-758	Sequence 758, App
32	20	100.0	20	11 US-09-776-479-806	Sequence 806, App
33	20	100.0	20	11 US-09-776-479-865	Sequence 865, App
34	20	100.0	20	11 US-09-965-101-68	Sequence 68, Appli
35	20	100.0	20	11 US-09-965-101-79	Sequence 79, Appli
36	20	100.0	20	13 US-10-023-909A-19	Sequence 19, Appli
37	20	100.0	20	13 US-10-205-150-7	Sequence 7, Appli
38	20	100.0	20	14 US-10-011-635A-1	Sequence 1, Appli
39	20	100.0	20	14 US-10-112-653-10	Sequence 10, Appli
40	20	100.0	20	14 US-10-112-653-11	Sequence 11, Appli
41	20	100.0	20	14 US-10-112-653-731	Sequence 731, App
42	20	100.0	20	14 US-10-112-653-779	Sequence 779, App
43	20	100.0	20	14 US-10-112-653-836	Sequence 836, App
44	20	100.0	20	14 US-10-017-995-758	Sequence 758, App
45	20	100.0	20	14 US-10-017-995-806	Sequence 806, App

ALIGNMENTS

RESULT 1
US-09-791-500-7
; Sequence 7, Application US/09791500
; Patent No. US20020042387A1
; GENERAL INFORMATION:
; APPLICANT: Raz, Eyal
; APPLICANT: Rachmilewitz, Daniel
; TITLE OF INVENTION: Method for Treating Inflammatory Bowel
; TITLE OF INVENTION: Disease and Other Forms of Gastrointestinal Inflammation.
; FILE REFERENCE: 6510-202US1
; CURRENT APPLICATION NUMBER: US/09/791,500
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic polynucleotide sequence
US-09-791-500-7

Query Match	100.0%;	Score 20;	DB 9;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 5;		
Matches	20;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
QY	1	TCCATGACGTTCTCTGATGCT	20	
Db	1	TCCATGACGTTCTCTGATGCT	20	

RESULT 2
US-09-824-468-24
; Sequence 24, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-24

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 3
US-09-800-266A-19
; Sequence 19, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-19

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 4
US-09-846-091-4
; Sequence 4, Application US/09846091
; Patent No. US20020165176A1

; GENERAL INFORMATION:
; APPLICANT: HAYNES, Joel R.
; APPLICANT: MACKLIN, Michael D.
; APPLICANT: PAYNE, Lendon G.
; TITLE OF INVENTION: NUCLEIC ACID IMMUNIZATION
; FILE REFERENCE: APF40
; CURRENT APPLICATION NUMBER: US/09/846,091
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US/09/561,951
; PRIOR FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Construct
US-09-846-091-4

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 5
US-09-895-007A-19
; Sequence 19, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-19

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 6
US-09-920-313-19
; Sequence 19, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers

; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-19

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 7

US-09-415-142-25
; Sequence 25, Application US/09415142
; Publication No. US20030026782A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/09/415,142
; CURRENT FILING DATE: 1999-10-09
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-415-142-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 8

US-09-888-326-127
; Sequence 127, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 127
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
; NAME/KEY: misc_feature
; LOCATION: (1)...(1)
; OTHER INFORMATION: biotinylated at 5' end
US-09-888-326-127

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 9

US-09-888-326-566
; Sequence 566, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 566
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-566

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 10

US-09-888-326-567
; Sequence 567, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22

;
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 567
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-567

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
|||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 11
US-09-818-918-7
; Sequence 7, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-7

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
|||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 12
US-09-818-918-35
; Sequence 35, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27

;
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-35

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
|||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 13
US-09-818-918-44
; Sequence 44, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-44

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
|||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 14
US-09-818-918-54
; Sequence 54, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7048 (AWS)
CURRENT APPLICATION NUMBER: US/09/818,918
CURRENT FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 54
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-54

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGCT 20
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 15

US-09-931-583-25
Sequence 25, Application US/09931583
Publication No. US20030050263A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred
TITLE OF INVENTION: Methods and Products for Treating HIV Infection
FILE REFERENCE: C1039/7053(HCL)
CURRENT APPLICATION NUMBER: US/09/931,583
CURRENT FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 09/415,142
PRIOR FILING DATE: 1999-10-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn version 3.0
SEQ ID NO 25
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGCT 20
Db 1 TCCATGACGTTCTGTGCT 20

Search completed: July 28, 2005, 04:00:01
Job time : 431.125 secs

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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-44
Perfect score: 20
Sequence: 1 tccatgacgttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/ina/5B COMB.seq:*
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4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	2	US-09-133-774-11
2	20	100.0	20	3	US-08-386-063-25
3	20	100.0	20	3	US-09-303-862-11
4	20	100.0	20	3	US-08-386-063-25
5	20	100.0	20	3	US-08-738-652-7
6	20	100.0	20	3	US-08-738-652-35
7	20	100.0	20	3	US-08-738-652-44
8	20	100.0	20	3	US-08-738-652-54
9	20	100.0	20	3	US-09-286-098-24
10	20	100.0	20	3	US-08-960-774-7
11	20	100.0	20	3	US-09-082-649B-68
12	20	100.0	20	3	US-09-082-649B-79
13	20	100.0	20	3	US-09-325-193A-19
14	20	100.0	20	3	US-09-191-170-24
15	20	100.0	20	3	US-09-171-425-5
16	20	100.0	20	3	US-09-171-425-14
17	20	100.0	20	4	US-09-690-921-5
18	20	100.0	20	4	US-09-791-500-7
19	20	100.0	20	4	US-09-337-619-7
20	20	100.0	20	4	US-09-965-101-68
21	20	100.0	20	4	US-09-965-101-79
22	20	100.0	29	3	US-08-848-229-2
23	20	100.0	29	4	US-09-022-965-2
24	19	95.0	19	4	US-09-770-602-1
25	19	95.0	19	4	US-09-770-602-2
26	19	95.0	19	4	US-09-770-602-3
27	19	95.0	19	4	US-09-770-602-4

28	19	95.0	19	4	US-09-770-602-5	Sequence 5, Appli
29	19	95.0	19	4	US-09-770-602-6	Sequence 6, Appli
30	19	95.0	19	4	US-09-770-602-7	Sequence 7, Appli
31	19	95.0	19	4	US-09-770-602-8	Sequence 8, Appli
32	18.4	92.0	20	3	US-08-738-652-3	Sequence 3, Appli
33	18.4	92.0	20	3	US-08-738-652-9	Sequence 9, Appli
34	18.4	92.0	20	3	US-08-738-652-40	Sequence 40, Appli
35	18.4	92.0	20	3	US-08-738-652-43	Sequence 43, Appli
36	18.4	92.0	20	3	US-08-738-652-45	Sequence 45, Appli
37	18.4	92.0	20	3	US-08-738-652-46	Sequence 46, Appli
38	18.4	92.0	20	3	US-08-738-652-53	Sequence 53, Appli
39	18.4	92.0	20	3	US-09-030-701-5	Sequence 5, Appli
40	18.4	92.0	20	3	US-09-286-098-45	Sequence 45, Appli
41	18.4	92.0	20	3	US-09-286-098-48	Sequence 48, Appli
42	18.4	92.0	20	3	US-09-286-098-49	Sequence 49, Appli
43	18.4	92.0	20	3	US-09-286-098-50	Sequence 50, Appli
44	18.4	92.0	20	3	US-09-286-098-56	Sequence 56, Appli
45	18.4	92.0	20	3	US-09-286-098-57	Sequence 57, Appli

ALIGNMENTS

RESULT 1
US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11

Query Match 100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 2
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 3
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 4
US-08-386-063-25
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; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 5
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 6

US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-35

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 7

US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 8

US-08-738-652-54
; Sequence 54, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-54

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 9

US-09-286-098-24
; Sequence 24, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 10

US-08-960-774-7
; Sequence 7, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-08-960-774-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
| | | | |
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 11
US-09-82-649B-68
; Sequence 68, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide

; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-082-649B-68
Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGACGTTCTCTGATGCT 20
| | | | |
Db 1 TCCATGACGTTCTCTGATGCT 20
RESULT 12
US-09-082-649B-79
; Sequence 79, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-79

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
| | | | |
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 13
US-09-325-193A-19
; Sequence 19, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 19

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-19

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGTTCTCTGATGCT 20
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Db      1 TCCATGACGTTCTCTGATGCT 20

RESULT 14
US-09-191-170-24
; Sequence 24, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-24

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGTTCTCTGATGCT 20
      . ||||| ||||| ||||| |||||
Db      1 TCCATGACGTTCTCTGATGCT 20

RESULT 15
US-09-171-425-5
; Sequence 5, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:
; APPLICANT: Schorr, Joachim
; APPLICANT: Baker, Henry J.
; APPLICANT: Smith, Bruce F.
; TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
; FILE REFERENCE: 08909/003001
; CURRENT APPLICATION NUMBER: US/09/171,425A
; CURRENT FILING DATE: 1998-10-19
; EARLIER APPLICATION NUMBER: PCT/EP97/01943
; EARLIER FILING DATE: 1996-04-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 20
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-5

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGTTCTCTGATGCT 20
      . ||||| ||||| ||||| |||||
Db      1 TCCATGACGTTCTCTGATGCT 20

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OM nucleic - nucleic search, using sw model

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Title: US-09-818-918-43
Perfect score: 20
Sequence: 1 tccatgtcgttcctgatgct 20

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4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:
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11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:
15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:
16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:
17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:
18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:
19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:
20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:
21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq:
22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:
23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:
24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:
25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9 US-09-824-468-48	Sequence 48, Appl
2	20	100.0	20	9 US-09-824-468-56	Sequence 56, Appl
3	20	100.0	20	9 US-09-824-468-57	Sequence 57, Appl
4	20	100.0	20	9 US-09-800-266A-49	Sequence 49, Appl
5	20	100.0	20	9 US-09-895-007A-49	Sequence 49, Appl
6	20	100.0	20	9 US-09-920-313-49	Sequence 49, Appl
C 7	20	100.0	20	10 US-09-888-326-62	Sequence 62, Appl

8	20	100.0	20	10 US-09-888-326-611	Sequence 611, App
9	20	100.0	20	10 US-09-818-918-43	Sequence 43, Appl
10	20	100.0	20	10 US-09-818-918-53	Sequence 53, Appl
11	20	100.0	20	10 US-09-931-583-57	Sequence 57, Appl
C 12	20	100.0	20	10 US-09-776-479-136	Sequence 136, App
13	20	100.0	20	10 US-09-776-479-759	Sequence 759, App
14	20	100.0	20	10 US-09-954-987B-96	Sequence 96, Appl
15	20	100.0	20	10 US-09-967-464-6	Sequence 6, Appl
16	20	100.0	20	11 US-09-874-991C-43	Sequence 43, Appl
17	20	100.0	20	11 US-09-874-991C-109	Sequence 109, App
18	20	100.0	20	11 US-09-874-991C-132	Sequence 132, App
19	20	100.0	20	11 US-09-874-991C-160	Sequence 160, App
20	20	100.0	20	11 US-09-874-991C-181	Sequence 181, App
21	20	100.0	20	11 US-09-874-991C-206	Sequence 206, App
22	20	100.0	20	11 US-09-874-991C-422	Sequence 422, App
23	20	100.0	20	11 US-09-874-991C-441	Sequence 441, App
C 24	20	100.0	20	11 US-09-776-479-136	Sequence 136, App
25	20	100.0	20	11 US-09-776-479-759	Sequence 759, App
26	20	100.0	20	11 US-09-965-101-71	Sequence 71, Appl
27	20	100.0	20	13 US-10-023-909A-49	Sequence 49, Appl
28	20	100.0	20	13 US-10-074-956-2	Sequence 2, Appl
29	20	100.0	20	14 US-10-112-653-8	Sequence 8, Appl
C 30	20	100.0	20	14 US-10-112-653-129	Sequence 129, App
31	20	100.0	20	14 US-10-112-653-732	Sequence 732, App
C 32	20	100.0	20	14 US-10-017-995-136	Sequence 136, App
33	20	100.0	20	14 US-10-017-995-759	Sequence 759, App
34	20	100.0	20	14 US-10-300-247-49	Sequence 49, Appl
35	20	100.0	20	15 US-10-161-229-43	Sequence 43, Appl
36	20	100.0	20	16 US-10-187-264A-38	Sequence 38, Appl
37	20	100.0	20	16 US-10-265-072-94	Sequence 94, Appl
38	20	100.0	20	16 US-10-306-522-38	Sequence 38, Appl
C 39	20	100.0	20	17 US-10-314-578-136	Sequence 136, App
40	20	100.0	20	17 US-10-314-578-759	Sequence 759, App
41	20	100.0	20	17 US-10-434-696-49	Sequence 49, Appl
42	20	100.0	20	18 US-10-373-381-43	Sequence 43, Appl
43	20	100.0	20	18 US-10-373-381-44	Sequence 44, Appl
44	20	100.0	20	18 US-10-719-493-38	Sequence 38, Appl
45	20	100.0	20	19 US-10-627-331-38	Sequence 38, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-48
; Sequence 48, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-48

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20

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Db      1  TCCATGTCGTTCCCTGATGCT 20
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RESULT 2
US-09-824-468-56
; Sequence 56, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-56
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
|||||
Db      1  TCCATGTCGTTCCCTGATGCT 20
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RESULT 3
US-09-824-468-57
; Sequence 57, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-824-468-57
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
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Db      1  TCCATGTCGTTCCCTGATGCT 20
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Db      1  TCCATGTCGTTCCCTGATGCT 20
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RESULT 4
US-09-800-266A-49
; Sequence 49, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-49
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
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Db      1  TCCATGTCGTTCCCTGATGCT 20
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RESULT 5
US-09-895-007A-49
; Sequence 49, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-49
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGTTCCCTGATGCT 20
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Db      1  TCCATGTCGTTCCCTGATGCT 20
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RESULT 6
US-09-920-313-49
; Sequence 49, Application US/09920313
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; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-49

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7
US-09-888-326-62/c
; Sequence 62, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-62

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 20 TCCATGTCGTTCTCTGATGCT 1

RESULT 8
US-09-888-326-611
; Sequence 611, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther

; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 611
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-611

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9
US-09-818-918-43
; Sequence 43, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-43

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 10
US-09-818-918-53
; Sequence 53, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.

; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-818-918-53

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1.TCCATGTCGTTCCCTGATGCT 20

RESULT 11

US-09-931-583-57
; Sequence 57, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-57

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 12

US-09-776-479-136/c

; Sequence 136, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-136

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 20 TCCATGTCGTTCCCTGATGCT 1

RESULT 13

US-09-776-479-759
; Sequence 759, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 759
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-759

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 14

US-09-954-987B-96
; Sequence 96, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford

APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
FILE REFERENCE: C1041/7016 (AWS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 96
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-96

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 15
US-09-967-464-6
Sequence 6, Application US/09967464
Publication No. US20030138453A1
GENERAL INFORMATION:
APPLICANT: O'Hagan, Derek
APPLICANT: Otten, Gillis
APPLICANT: Donnelly, John J.
APPLICANT: Polo, John M.
APPLICANT: Barnett, Susan
APPLICANT: Singh, Mamohan
APPLICANT: Ulmer, Jeffrey
APPLICANT: Dubensky, Jr., Thomas W.
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
FILE REFERENCE: PP16269.004
CURRENT APPLICATION NUMBER: US/09/967,464
CURRENT FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: 60/236,105
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/315,905
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 68
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial sequence is synthesized
US-09-967-464-6

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

Search completed: July 28, 2005, 04:00:00
Job time : 431.125 secs

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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-43
Perfect score: 20
Sequence: 1 tccatgtcgttcctgatgct 20
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-43
2	20	100.0	20	3	US-08-738-652-53
3	20	100.0	20	3	US-09-030-701-5
4	20	100.0	20	3	US-09-286-098-48
5	20	100.0	20	3	US-09-286-098-56
6	20	100.0	20	3	US-09-286-098-57
7	20	100.0	20	3	US-08-960-774-38
8	20	100.0	20	3	US-09-082-649B-71
9	20	100.0	20	3	US-09-325-193A-49
10	20	100.0	20	3	US-09-191-170-43
11	20	100.0	20	3	US-09-191-170-51
12	20	100.0	20	4	US-09-337-619-38
13	20	100.0	20	4	US-09-965-101-71
14	19	95.0	20	3	US-09-030-701-25
15	19	95.0	20	3	US-08-960-774-44
16	19	95.0	20	3	US-09-082-649B-72
17	19	95.0	20	4	US-09-337-619-44
18	19	95.0	20	4	US-09-965-101-72
19	18.4	92.0	20	1	US-08-436-714-7
20	18.4	92.0	20	1	US-08-442-705-7
21	18.4	92.0	20	1	US-08-332-829-7
22	18.4	92.0	20	2	US-09-133-774-11
23	18.4	92.0	20	3	US-08-386-063-21
24	18.4	92.0	20	3	US-08-386-063-25
25	18.4	92.0	20	3	US-09-303-862-11
26	18.4	92.0	20	3	US-08-386-063-21
27	18.4	92.0	20	3	US-08-386-063-25

28	18.4	92.0	20	3	US-08-738-652-7	Sequence 7, Appli
29	18.4	92.0	20	3	US-08-738-652-31	Sequence 31, Appl
30	18.4	92.0	20	3	US-08-738-652-33	Sequence 33, Appl
31	18.4	92.0	20	3	US-08-738-652-34	Sequence 34, Appl
32	18.4	92.0	20	3	US-08-738-652-35	Sequence 35, Appl
33	18.4	92.0	20	3	US-08-738-652-37	Sequence 37, Appl
34	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appl
35	18.4	92.0	20	3	US-08-738-652-42	Sequence 42, Appl
36	18.4	92.0	20	3	US-08-738-652-44	Sequence 44, Appl
37	18.4	92.0	20	3	US-08-738-652-54	Sequence 54, Appl
38	18.4	92.0	20	3	US-09-030-701-4	Sequence 4, Appli
39	18.4	92.0	20	3	US-09-286-098-22	Sequence 22, Appl
40	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
41	18.4	92.0	20	3	US-09-286-098-24	Sequence 24, Appl
42	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
43	18.4	92.0	20	3	US-09-286-098-46	Sequence 46, Appl
44	18.4	92.0	20	3	US-09-286-098-47	Sequence 47, Appl
45	18.4	92.0	20	3	US-08-960-774-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1

US-08-738-652-43
; Sequence 43, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 2

US-08-738-652-53
; Sequence 53, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 53

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-53

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCTCTGATGCT 20
Db      1 TCCATGTCGTTCTCTGATGCT 20

RESULT 3
US-09-030-701-5
; Sequence 5, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-5

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCTCTGATGCT 20
Db      1 TCCATGTCGTTCTCTGATGCT 20

RESULT 4
US-09-286-098-48
; Sequence 48, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-48

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCTCTGATGCT 20
Db      1 TCCATGTCGTTCTCTGATGCT 20

RESULT 5
US-09-286-098-56
; Sequence 56, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-56

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCTCTGATGCT 20
Db      1 TCCATGTCGTTCTCTGATGCT 20

RESULT 6
US-09-286-098-57
; Sequence 57, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
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; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-286-098-57

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7

US-08-960-774-38
; Sequence 38, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.

; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099

; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-38

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 8

US-09-082-649B-71
; Sequence 71, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-71

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9

US-09-325-193A-49
; Sequence 49, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 10

US-09-191-170-43
; Sequence 43, Application US/09191170
; Patent No. 6429199

; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 11
US-09-191-170-51
; Sequence 51, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-191-170-51

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 12
US-09-337-619-38
; Sequence 38, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-38

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 13
US-09-965-101-71
; Sequence 71, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-71

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 14
US-09-030-701-25
; Sequence 25, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (8)...(8)
; OTHER INFORMATION: any nucleotide
US-09-030-701-25

Query Match 95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTNGTTCCTGATGCT 20

RESULT 15
US-08-960-774-44
; Sequence 44, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996

; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 8...8
; OTHER INFORMATION: where N at position 8 is 5 methyl cytosine
US-08-960-774-44

Query Match 95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTNGTTCCTGATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 77 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-42

Perfect score: 20

Sequence: 1 tccatgtcgctcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9 US-09-824-468-47	Sequence 47, Appl
2	20	100.0	20	9 US-09-800-266A-40	Sequence 40, Appl
3	20	100.0	20	9 US-09-895-007A-40	Sequence 40, Appl
4	20	100.0	20	9 US-09-920-313-40	Sequence 40, Appl
5	20	100.0	20	10 US-09-818-918-42	Sequence 42, Appl
6	20	100.0	20	10 US-09-931-583-53	Sequence 53, Appl
7	20	100.0	20	10 US-09-954-987B-92	Sequence 92, Appl

8	20	100.0	20	11 US-09-874-991C-42	Sequence 42, Appl
9	20	100.0	20	11 US-09-874-991C-108	Sequence 108, App
10	20	100.0	20	11 US-09-874-991C-131	Sequence 131, App
11	20	100.0	20	11 US-09-874-991C-159	Sequence 159, App
12	20	100.0	20	11 US-09-874-991C-180	Sequence 180, App
13	20	100.0	20	11 US-09-874-991C-205	Sequence 205, App
14	20	100.0	20	11 US-09-874-991C-421	Sequence 421, App
15	20	100.0	20	11 US-09-874-991C-440	Sequence 440, App
16	20	100.0	20	13 US-10-023-909A-40	Sequence 40, Appl
17	20	100.0	20	14 US-10-300-247-40	Sequence 40, Appl
18	20	100.0	20	15 US-10-161-229-42	Sequence 42, Appl
19	20	100.0	20	16 US-10-187-264A-37	Sequence 37, Appl
20	20	100.0	20	16 US-10-265-072-90	Sequence 90, Appl
21	20	100.0	20	16 US-10-306-522-37	Sequence 37, Appl
22	20	100.0	20	17 US-10-434-696-40	Sequence 40, Appl
23	20	100.0	20	18 US-10-373-381-35	Sequence 35, Appl
24	20	100.0	20	18 US-10-719-493-37	Sequence 37, Appl
25	20	100.0	20	19 US-10-627-331-37	Sequence 37, Appl
26	20	100.0	20	19 US-10-666-733-40	Sequence 40, Appl
27	20	100.0	20	19 US-10-743-625-42	Sequence 42, Appl
28	20	100.0	20	19 US-10-769-282-42	Sequence 42, Appl
29	20	100.0	20	19 US-10-817-165-42	Sequence 42, Appl
30	20	100.0	20	20 US-10-857-733-3	Sequence 3, Appli
31	20	100.0	20	20 US-10-877-407-45	Sequence 45, Appl
32	20	100.0	20	20 US-10-877-369-35	Sequence 35, Appl
33	20	100.0	20	20 US-10-816-220-40	Sequence 40, Appl
34	20	100.0	20	20 US-10-876-892-35	Sequence 35, Appl
35	20	100.0	20	20 US-10-876-965-35	Sequence 35, Appl
36	20	100.0	20	20 US-10-888-886-40	Sequence 40, Appl
37	20	100.0	20	21 US-10-847-642-42	Sequence 42, Appl
38	20	100.0	20	21 US-10-888-785-42	Sequence 42, Appl
39	20	100.0	20	21 US-10-649-584-53	Sequence 53, Appl
40	20	100.0	20	21 US-10-831-775-40	Sequence 40, Appl
41	20	100.0	20	21 US-10-888-449-42	Sequence 42, Appl
42	20	100.0	20	21 US-10-894-862-45	Sequence 45, Appl
43	20	100.0	20	21 US-10-894-657-45	Sequence 45, Appl
44	20	100.0	20	21 US-10-884-852-42	Sequence 42, Appl
45	20	100.0	20	21 US-10-613-916-42	Sequence 42, Appl

ALIGNMENTS

RESULT 1

US-09-824-468-47
; Sequence 47, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-47

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20

Db 1 TCCATGTCGCTCCTGATGCT 20
RESULT 2
US-09-800-266A-40
; Sequence 40, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-40
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20
RESULT 3
US-09-895-007A-40
; Sequence 40, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-40
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20
RESULT 4

US-09-920-313-40
; Sequence 40, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-40
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20
RESULT 5
US-09-818-918-42
; Sequence 42, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-42
Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20
RESULT 6
US-09-931-583-53
; Sequence 53, Application US/09931583

; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-53

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 7

US-09-954-987B-92
; Sequence 92, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CpG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-92

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 8
US-09-874-991C-42
; Sequence 42, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-42

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 9

US-09-874-991C-108
; Sequence 108, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 108
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-108

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 10

US-09-874-991C-131
; Sequence 131, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL

; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 131
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-131

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 11
US-09-874-991C-159
; Sequence 159, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 159
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-159

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 12
US-09-874-991C-180
; Sequence 180, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07

; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 180
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-180

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 13
US-09-874-991C-205
; Sequence 205, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-205

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 14
US-09-874-991C-421
; Sequence 421, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 421
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-421

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 15

US-09-874-991C-440
; Sequence 440, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 440
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-440

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGCTCCTGATGCT 20

Search completed: July 28, 2005, 03:59:59
Job time : 431.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-42
Perfect score: 20
Sequence: 1 tccatgtcgtcctctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	20	100.0	20	3	US-08-738-652-42	Sequence 42, Appl
2	20	100.0	20	3	US-09-030-701-4	Sequence 4, Appl
3	20	100.0	20	3	US-09-286-098-47	Sequence 47, Appl
4	20	100.0	20	3	US-08-960-774-37	Sequence 37, Appl
5	20	100.0	20	3	US-09-325-193A-40	Sequence 40, Appl
6	20	100.0	20	3	US-09-191-170-42	Sequence 42, Appl
7	20	100.0	20	4	US-09-337-619-37	Sequence 37, Appl
8	18.4	92.0	20	1	US-08-436-714-7	Sequence 7, Appl
9	18.4	92.0	20	1	US-08-442-705-7	Sequence 7, Appl
10	18.4	92.0	20	1	US-08-332-829-7	Sequence 7, Appl
11	18.4	92.0	20	3	US-08-386-063-21	Sequence 21, Appl
12	18.4	92.0	20	3	US-08-386-063-21	Sequence 21, Appl
13	18.4	92.0	20	3	US-08-738-652-31	Sequence 31, Appl
14	18.4	92.0	20	3	US-08-738-652-33	Sequence 33, Appl
15	18.4	92.0	20	3	US-08-738-652-34	Sequence 34, Appl
16	18.4	92.0	20	3	US-08-738-652-37	Sequence 37, Appl
17	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appl
18	18.4	92.0	20	3	US-08-738-652-43	Sequence 43, Appl
19	18.4	92.0	20	3	US-08-738-652-53	Sequence 53, Appl
20	18.4	92.0	20	3	US-09-030-701-5	Sequence 5, Appl
21	18.4	92.0	20	3	US-09-286-098-22	Sequence 22, Appl
22	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
23	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
24	18.4	92.0	20	3	US-09-286-098-46	Sequence 46, Appl
25	18.4	92.0	20	3	US-09-286-098-48	Sequence 48, Appl
26	18.4	92.0	20	3	US-09-286-098-56	Sequence 56, Appl
27	18.4	92.0	20	3	US-09-286-098-57	Sequence 57, Appl

28	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
29	18.4	92.0	20	3	US-08-960-774-36	Sequence 36, Appl
30	18.4	92.0	20	3	US-08-960-774-38	Sequence 38, Appl
31	18.4	92.0	20	3	US-08-960-774-89	Sequence 89, Appl
32	18.4	92.0	20	3	US-09-082-649B-71	Sequence 71, Appl
33	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
34	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
35	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
36	18.4	92.0	20	3	US-09-325-193A-39	Sequence 39, Appl
37	18.4	92.0	20	3	US-09-325-193A-49	Sequence 49, Appl
38	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
39	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
40	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
41	18.4	92.0	20	3	US-09-191-170-41	Sequence 41, Appl
42	18.4	92.0	20	3	US-09-191-170-43	Sequence 43, Appl
43	18.4	92.0	20	3	US-09-191-170-51	Sequence 51, Appl
44	18.4	92.0	20	4	US-09-337-619-28	Sequence 28, Appl
45	18.4	92.0	20	4	US-09-337-619-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-42
; Sequence 42, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 2
US-09-030-701-4
; Sequence 4, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 3.0

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; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-4

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGTCGCTCCTGATGCT 20
      |||
Db      1 TCCATGTCGCTCCTGATGCT 20

RESULT 3
US-09-286-098-47
; Sequence 47, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-47

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGTCGCTCCTGATGCT 20
      |||
Db      1 TCCATGTCGCTCCTGATGCT 20

RESULT 4
US-08-960-774-37
; Sequence 37, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
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; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGTCGCTCCTGATGCT 20
      |||
Db      1 TCCATGTCGCTCCTGATGCT 20

RESULT 5
US-09-325-193A-40
; Sequence 40, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGTCGCTCCTGATGCT 20
      |||
Db      1 TCCATGTCGCTCCTGATGCT 20

RESULT 6
US-09-191-170-42
; Sequence 42, Application US/09191170
; Patent No. 6429199
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; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 7
US-09-337-619-37
; Sequence 37, Application US/093337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-37

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 8
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 9
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705

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; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 10
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
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Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 11
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 12
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 13
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 14
US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
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;
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
US-08-738-652-34
; Sequence 34, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-08-738-652-34

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGTCGGTCCTGATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 77 secs
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

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Perfect score: 20
Sequence: 1 tccatgacggctcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*
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14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
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16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
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19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:*
20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*
21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq:*
22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*
24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	20	100.0	20	9	US-09-824-468-45
2	20	100.0	20	9	US-09-800-266A-38
3	20	100.0	20	9	US-09-895-007A-38
4	20	100.0	20	9	US-09-920-313-38
5	20	100.0	20	10	US-09-888-326-555
6	20	100.0	20	10	US-09-818-918-40
7	20	100.0	20	10	US-09-931-583-45

8	20	100.0	20	10	US-09-776-479-754	Sequence 754, Appl
9	20	100.0	20	10	US-09-954-987B-80	Sequence 80, Appl
10	20	100.0	20	11	US-09-874-991C-40	Sequence 40, Appl
11	20	100.0	20	11	US-09-874-991C-106	Sequence 106, Appl
12	20	100.0	20	11	US-09-874-991C-129	Sequence 129, Appl
13	20	100.0	20	11	US-09-874-991C-157	Sequence 157, Appl
14	20	100.0	20	11	US-09-874-991C-178	Sequence 178, Appl
15	20	100.0	20	11	US-09-874-991C-203	Sequence 203, Appl
16	20	100.0	20	11	US-09-874-991C-419	Sequence 419, Appl
17	20	100.0	20	11	US-09-874-991C-438	Sequence 438, Appl
18	20	100.0	20	11	US-09-776-479-754	Sequence 754, Appl
19	20	100.0	20	13	US-10-023-909A-38	Sequence 38, Appl
20	20	100.0	20	14	US-10-112-653-727	Sequence 727, Appl
21	20	100.0	20	14	US-10-017-995-754	Sequence 754, Appl
22	20	100.0	20	14	US-10-300-247-38	Sequence 38, Appl
23	20	100.0	20	15	US-10-161-229-40	Sequence 40, Appl
24	20	100.0	20	16	US-10-187-264A-35	Sequence 35, Appl
25	20	100.0	20	16	US-10-265-072-81	Sequence 81, Appl
26	20	100.0	20	16	US-10-306-522-35	Sequence 35, Appl
27	20	100.0	20	17	US-10-314-578-754	Sequence 754, Appl
28	20	100.0	20	17	US-10-434-696-38	Sequence 38, Appl
29	20	100.0	20	18	US-10-373-381-33	Sequence 33, Appl
30	20	100.0	20	18	US-10-719-493-35	Sequence 35, Appl
31	20	100.0	20	19	US-10-627-331-35	Sequence 35, Appl
32	20	100.0	20	19	US-10-666-733-38	Sequence 38, Appl
33	20	100.0	20	19	US-10-743-625-40	Sequence 40, Appl
34	20	100.0	20	19	US-10-769-282-40	Sequence 40, Appl
35	20	100.0	20	19	US-10-817-165-40	Sequence 40, Appl
36	20	100.0	20	20	US-10-877-407-35	Sequence 35, Appl
37	20	100.0	20	20	US-10-877-369-33	Sequence 33, Appl
38	20	100.0	20	20	US-10-816-220-38	Sequence 38, Appl
39	20	100.0	20	20	US-10-831-778-754	Sequence 754, Appl
40	20	100.0	20	20	US-10-876-892-33	Sequence 33, Appl
41	20	100.0	20	20	US-10-876-965-33	Sequence 33, Appl
42	20	100.0	20	20	US-10-888-886-38	Sequence 38, Appl
43	20	100.0	20	21	US-10-847-642-40	Sequence 40, Appl
44	20	100.0	20	21	US-10-888-785-40	Sequence 40, Appl
45	20	100.0	20	21	US-10-649-584-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-45
; Sequence 45, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-45

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCCATGACGGTCCTGATGCT 20

Db 1 TCCATGACGGTCCTGATGCT 20
RESULT 2
US-09-800-266A-38
; Sequence 38, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-38
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20
RESULT 3
US-09-895-007A-38
; Sequence 38, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-38
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20
RESULT 4

US-09-920-313-38
; Sequence 38, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-38
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20
RESULT 5
US-09-888-326-555
; Sequence 555, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 555
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-555
Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20
RESULT 6
US-09-818-918-40
; Sequence 40, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:


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; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-40
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```
Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20
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RESULT 7

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US-09-931-583-45
; Sequence 45, Application US/09931583
; Publication No. US20030050263A1
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; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053(HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-45
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Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20
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RESULT 8

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US-09-776-479-754
; Sequence 754, Application US/09776479
; Publication No. US20030087848A1
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; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 754
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-754
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Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGACGGTCCTGATGCT 20
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RESULT 9

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US-09-954-987B-80
; Sequence 80, Application US/09954987B
; Publication No. US20030104523A1
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; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 80
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-80
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```
Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 TCCATGACGGTCCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCCTGATGCT 20
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RESULT 10

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US-09-874-991C-40
; Sequence 40, Application US/09874991C
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Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-40

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 11
US-09-874-991C-106
; Sequence 106, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 106
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-106

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 12
US-09-874-991C-129
; Sequence 129, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0

; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-129

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 13
US-09-874-991C-157
; Sequence 157, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 157
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-157

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 14
US-09-874-991C-178
; Sequence 178, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 178

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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-178

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGACGGTCCTGATGCT 20
      |||||
Db      1 TCCATGACGGTCCTGATGCT 20
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```
RESULT 15
US-09-874-991C-203
; Sequence 203, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 203
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-203
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Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCATGACGGTCCTGATGCT 20
      |||||
Db      1 TCCATGACGGTCCTGATGCT 20
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Job time : 430.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-40
Perfect score: 20
Sequence: 1 tccatgacggctcctgatgct 20
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*
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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-40 Sequence 40, Appl
2	20	100.0	20	3	US-09-286-098-45 Sequence 45, Appl
3	20	100.0	20	3	US-08-960-774-35 Sequence 35, Appl
4	20	100.0	20	3	US-09-325-193A-38 Sequence 38, Appl
5	20	100.0	20	3	US-09-191-170-40 Sequence 40, Appl
6	20	100.0	20	4	US-09-337-619-35 Sequence 35, Appl
7	18.4	92.0	20	1	US-08-436-714-7 Sequence 7, Appli
8	18.4	92.0	20	1	US-08-442-705-7 Sequence 7, Appli
9	18.4	92.0	20	1	US-08-332-829-7 Sequence 7, Appli
10	18.4	92.0	20	2	US-09-133-774-11 Sequence 11, Appl
11	18.4	92.0	20	3	US-08-386-063-21 Sequence 21, Appl
12	18.4	92.0	20	3	US-08-386-063-25 Sequence 25, Appl
13	18.4	92.0	20	3	US-09-303-862-11 Sequence 11, Appl
14	18.4	92.0	20	3	US-08-386-063-21 Sequence 21, Appl
15	18.4	92.0	20	3	US-08-386-063-25 Sequence 25, Appl
16	18.4	92.0	20	3	US-08-738-652-7 Sequence 7, Appli
17	18.4	92.0	20	3	US-08-738-652-31 Sequence 31, Appl
18	18.4	92.0	20	3	US-08-738-652-33 Sequence 33, Appl
19	18.4	92.0	20	3	US-08-738-652-34 Sequence 34, Appl
20	18.4	92.0	20	3	US-08-738-652-35 Sequence 35, Appl
21	18.4	92.0	20	3	US-08-738-652-37 Sequence 37, Appl
22	18.4	92.0	20	3	US-08-738-652-38 Sequence 38, Appl
23	18.4	92.0	20	3	US-08-738-652-39 Sequence 39, Appl
24	18.4	92.0	20	3	US-08-738-652-44 Sequence 44, Appl
25	18.4	92.0	20	3	US-08-738-652-54 Sequence 54, Appl
26	18.4	92.0	20	3	US-09-286-098-22 Sequence 22, Appl
27	18.4	92.0	20	3	US-09-286-098-23 Sequence 23, Appl

28	18.4	92.0	20	3	US-09-286-098-24 Sequence 24, Appl
29	18.4	92.0	20	3	US-09-286-098-42 Sequence 42, Appl
30	18.4	92.0	20	3	US-09-286-098-43 Sequence 43, Appl
31	18.4	92.0	20	3	US-09-286-098-44 Sequence 44, Appl
32	18.4	92.0	20	3	US-08-960-774-7 Sequence 7, Appli
33	18.4	92.0	20	3	US-08-960-774-28 Sequence 28, Appl
34	18.4	92.0	20	3	US-08-960-774-33 Sequence 33, Appl
35	18.4	92.0	20	3	US-08-960-774-34 Sequence 34, Appl
36	18.4	92.0	20	3	US-08-960-774-87 Sequence 87, Appl
37	18.4	92.0	20	3	US-08-960-774-89 Sequence 89, Appl
38	18.4	92.0	20	3	US-09-082-649B-68 Sequence 68, Appl
39	18.4	92.0	20	3	US-09-082-649B-79 Sequence 79, Appl
40	18.4	92.0	20	3	US-09-325-193A-17 Sequence 17, Appl
41	18.4	92.0	20	3	US-09-325-193A-18 Sequence 18, Appl
42	18.4	92.0	20	3	US-09-325-193A-19 Sequence 19, Appl
43	18.4	92.0	20	3	US-09-325-193A-35 Sequence 35, Appl
44	18.4	92.0	20	3	US-09-325-193A-36 Sequence 36, Appl
45	18.4	92.0	20	3	US-09-325-193A-37 Sequence 37, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-40
; Sequence 40, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-40

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
|||||
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 2
US-09-286-098-45
; Sequence 45, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0

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; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-45

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGGTCCTGATGCT 20
      |||
Db      1 TCCATGACGGTCCTGATGCT 20

RESULT 3
US-08-960-774-35
; Sequence 35, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-35

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGGTCCTGATGCT 20
      |||
Db      1 TCCATGACGGTCCTGATGCT 20

RESULT 4
US-09-325-193A-38
; Sequence 38, Application US/09325193A
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; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-38

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGGTCCTGATGCT 20
      |||
Db      1 TCCATGACGGTCCTGATGCT 20

RESULT 5
US-09-191-170-40
; Sequence 40, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-40

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGGTCCTGATGCT 20
      |||
Db      1 TCCATGACGGTCCTGATGCT 20
```



```
RESULT 6
US-09-337-619-35
; Sequence 35, Application US/093337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-35

Query Match          100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
   ||||| ||||| ||||| |||||
DB 1 TCCATGACGGTCCTGATGCT 20

RESULT 7
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
   ||||| ||||| ||||| |||||
DB 1 TCCATGACGGTCCTGATGCT 20

RESULT 8
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
   ||||| ||||| ||||| |||||
DB 1 TCCATGACGGTCCTGATGCT 20

RESULT 9
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
```

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; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
   ||||| ||||| ||||| |||||
DB 1 TCCATGACGGTCCTGATGCT 20

RESULT 8
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
   ||||| ||||| ||||| |||||
DB 1 TCCATGACGGTCCTGATGCT 20

RESULT 9
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
```

;
;
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 11
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: ASCII text
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/386,063
;; FILING DATE:
;; CLASSIFICATION: 424
;; ATTORNEY/AGENT INFORMATION:
;; NAME: ARNOLD, BETH E.
;; REGISTRATION NUMBER: 35,430
;; REFERENCE/DOCKET NUMBER: UIZ-013CP
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617)227-7400
;; TELEFAX: (617)227-5941
;; INFORMATION FOR SEQ ID NO: 25:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 20 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
US-08-386-063-25

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 13
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 14
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.

;; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
;; NUMBER OF SEQUENCES: 27
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: LAHIVE & COCKFIELD
;; STREET: 60 STATE STREET, SUITE 510
;; CITY: BOSTON
;; STATE: MASSACHUSETTS
;; COUNTRY: USA
;; ZIP: 02109-1875
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: ASCII text
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/386,063
;; FILING DATE:
;; CLASSIFICATION:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: ARNOLD, BETH E.
;; REGISTRATION NUMBER: 35,430
;; REFERENCE/DOCKET NUMBER: UIZ-013CP
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617)227-7400
;; TELEFAX: (617)227-5941
;; INFORMATION FOR SEQ ID NO: 21:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 20 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

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; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25
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Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy      1 TCCATGACGGTCCTGATGCT 20
        |||||
Db      1 TCCATGACGGTCCTGATGCT 20
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Search completed: July 27, 2005, 18:00:03
Job time : 77 secs
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
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- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9	US-09-824-468-44
2	20	100.0	20	9	US-09-800-266A-37
3	20	100.0	20	9	US-09-895-007A-37
4	20	100.0	20	9	US-09-920-313-37
5	20	100.0	20	10	US-09-888-326-595
6	20	100.0	20	10	US-09-818-918-39
7	20	100.0	20	10	US-09-931-583-51

8	20	100.0	20	10	US-09-776-479-755	Sequence 755, App
9	20	100.0	20	10	US-09-954-987B-90	Sequence 90, Appl
10	20	100.0	20	11	US-09-874-991C-39	Sequence 39, Appl
11	20	100.0	20	11	US-09-874-991C-105	Sequence 105, App
12	20	100.0	20	11	US-09-874-991C-128	Sequence 128, App
13	20	100.0	20	11	US-09-874-991C-156	Sequence 156, App
14	20	100.0	20	11	US-09-874-991C-177	Sequence 177, App
15	20	100.0	20	11	US-09-874-991C-202	Sequence 202, App
16	20	100.0	20	11	US-09-874-991C-418	Sequence 418, App
17	20	100.0	20	11	US-09-874-991C-437	Sequence 437, App
18	20	100.0	20	11	US-09-776-479-755	Sequence 755, App
19	20	100.0	20	13	US-10-023-909A-37	Sequence 37, Appl
20	20	100.0	20	14	US-10-112-653-728	Sequence 728, App
21	20	100.0	20	14	US-10-017-995-755	Sequence 755, App
22	20	100.0	20	14	US-10-300-247-37	Sequence 37, Appl
23	20	100.0	20	15	US-10-161-229-39	Sequence 39, Appl
24	20	100.0	20	16	US-10-187-264A-34	Sequence 34, Appl
25	20	100.0	20	16	US-10-265-072-88	Sequence 88, Appl
26	20	100.0	20	16	US-10-306-522-34	Sequence 34, Appl
27	20	100.0	20	17	US-10-314-578-755	Sequence 755, App
28	20	100.0	20	17	US-10-434-696-37	Sequence 37, Appl
29	20	100.0	20	18	US-10-373-381-32	Sequence 32, Appl
30	20	100.0	20	18	US-10-719-493-34	Sequence 34, Appl
31	20	100.0	20	19	US-10-627-331-34	Sequence 34, Appl
32	20	100.0	20	19	US-10-666-733-37	Sequence 37, Appl
33	20	100.0	20	19	US-10-743-625-39	Sequence 39, Appl
34	20	100.0	20	19	US-10-769-282-39	Sequence 39, Appl
35	20	100.0	20	19	US-10-817-165-39	Sequence 39, Appl
36	20	100.0	20	20	US-10-877-407-43	Sequence 43, Appl
37	20	100.0	20	20	US-10-877-369-32	Sequence 32, Appl
38	20	100.0	20	20	US-10-816-220-37	Sequence 37, Appl
39	20	100.0	20	20	US-10-831-778-755	Sequence 755, App
40	20	100.0	20	20	US-10-876-892-32	Sequence 32, Appl
41	20	100.0	20	20	US-10-876-965-32	Sequence 32, Appl
42	20	100.0	20	20	US-10-888-886-37	Sequence 37, Appl
43	20	100.0	20	21	US-10-847-642-39	Sequence 39, Appl
44	20	100.0	20	21	US-10-888-785-39	Sequence 39, Appl
45	20	100.0	20	21	US-10-649-584-51	Sequence 51, Appl

ALIGNMENTS

RESULT 1

US-09-824-468-44
; Sequence 44, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-44

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20

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Db      1  TCCATGGCGGTCCTGATGCT 20
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RESULT 2
US-09-800-266A-37
; Sequence 37, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-37

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
|||||
Db      1  TCCATGGCGGTCCTGATGCT 20
|||||

RESULT 3
US-09-895-007A-37
; Sequence 37, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-37

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
|||||
Db      1  TCCATGGCGGTCCTGATGCT 20
|||||

RESULT 4
US-09-895-007A-37
; Sequence 37, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-37

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
|||||
Db      1  TCCATGGCGGTCCTGATGCT 20
|||||

RESULT 5
US-09-888-326-595
; Sequence 595, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 595
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-595

Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGGCGGTCCTGATGCT 20
|||||
Db      1  TCCATGGCGGTCCTGATGCT 20
|||||

RESULT 6
US-09-818-918-39
; Sequence 39, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
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; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-39

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 7

US-09-931-583-51
; Sequence 51, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-51

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 8

US-09-776-479-755
; Sequence 755, Application US/09776479
; Publication No. US20030087848A1

; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 755
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-755

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
|||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 9

US-09-954-987B-90
; Sequence 90, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-90

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 10

US-09-874-991C-39
; Sequence 39, Application US/09874991C

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; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-39

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 11
US-09-874-991C-105
; Sequence 105, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-105

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 12
US-09-874-991C-128
; Sequence 128, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
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; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 128
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-128

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 13
US-09-874-991C-156
; Sequence 156, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 156
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-156

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 14
US-09-874-991C-177
; Sequence 177, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 177
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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-177

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
|||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 15
US-09-874-991C-202
; Sequence 202, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 202
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-202

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
|||
Db 1 TCCATGGCGGTCCTGATGCT 20

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Job time : 430.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
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- 5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-39
2	20	100.0	20	3	US-09-286-098-44
3	20	100.0	20	3	US-08-960-774-34
4	20	100.0	20	3	US-09-325-193A-37
5	20	100.0	20	3	US-09-191-170-39
6	20	100.0	20	4	US-09-337-619-34
7	18.4	92.0	20	1	US-08-436-714-7
8	18.4	92.0	20	1	US-08-442-705-7
9	18.4	92.0	20	1	US-08-332-829-7
10	18.4	92.0	20	3	US-08-386-063-21
11	18.4	92.0	20	3	US-08-386-063-21
12	18.4	92.0	20	3	US-08-738-652-31
13	18.4	92.0	20	3	US-08-738-652-33
14	18.4	92.0	20	3	US-08-738-652-34
15	18.4	92.0	20	3	US-08-738-652-37
16	18.4	92.0	20	3	US-08-738-652-38
17	18.4	92.0	20	3	US-08-738-652-40
18	18.4	92.0	20	3	US-09-286-098-22
19	18.4	92.0	20	3	US-09-286-098-23
20	18.4	92.0	20	3	US-09-286-098-42
21	18.4	92.0	20	3	US-09-286-098-43
22	18.4	92.0	20	3	US-09-286-098-45
23	18.4	92.0	20	3	US-08-960-774-28
24	18.4	92.0	20	3	US-08-960-774-33
25	18.4	92.0	20	3	US-08-960-774-35
26	18.4	92.0	20	3	US-08-960-774-101
27	18.4	92.0	20	3	US-08-960-774-102

28	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
29	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
30	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
31	18.4	92.0	20	3	US-09-325-193A-36	Sequence 36, Appl
32	18.4	92.0	20	3	US-09-325-193A-38	Sequence 38, Appl
33	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
34	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
35	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
36	18.4	92.0	20	3	US-09-191-170-38	Sequence 38, Appl
37	18.4	92.0	20	3	US-09-191-170-40	Sequence 40, Appl
38	18.4	92.0	20	4	US-09-337-619-28	Sequence 28, Appl
39	18.4	92.0	20	4	US-09-337-619-33	Sequence 33, Appl
40	18.4	92.0	20	4	US-09-337-619-35	Sequence 35, Appl
C 41	18.4	92.0	25	4	US-09-396-196G-52295	Sequence 52295, A
C 42	18.4	92.0	25	4	US-09-396-196G-52296	Sequence 52296, A
C 43	18.4	92.0	1237	1	US-08-798-000-2	Sequence 2, Appli
C 44	18.4	92.0	2002	3	US-09-315-127-7	Sequence 7, Appli
C 45	18.4	92.0	3925	3	US-09-011-745-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1

US-08-738-652-39
; Sequence 39, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-39

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 2

US-09-286-098-44
; Sequence 44, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0

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; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-44

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 3
US-08-960-774-34
; Sequence 34, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-34

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
   |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 4
US-09-325-193A-37
; Sequence 37, Application US/09325193A

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RESULT 6
US-09-337-619-34
; Sequence 34, Application US/093337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-34

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
|||
Db 1 TCCATGCGGTCCTGATGCT 20

RESULT 7
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
|||
Db 1 TCCATGCGGTCCTGATGCT 20

RESULT 8
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
|||
Db 1 TCCATGCGGTCCTGATGCT 20

RESULT 9
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide

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; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
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; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
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; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 13
US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 14
US-08-738-652-34
; Sequence 34, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL

; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-08-738-652-34

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
US-08-738-652-37
; Sequence 37, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-37

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 78 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

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Perfect score: 20
Sequence: 1 tccatgccggtcctgatgct 20
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 727826 seqs, 3233139505 residues
Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	20	100.0	20	9 US-09-824-468-43	Sequence 43, Appl
2	20	100.0	20	9 US-09-800-266A-36	Sequence 36, Appl
3	20	100.0	20	9 US-09-895-007A-36	Sequence 36, Appl
4	20	100.0	20	9 US-09-920-313-36	Sequence 36, Appl
5	20	100.0	20	10 US-09-888-326-585	Sequence 585, App
6	20	100.0	20	10 US-09-818-918-38	Sequence 38, Appl
7	20	100.0	20	10 US-09-931-583-49	Sequence 49, Appl

8	20	100.0	20	10 US-09-776-479-775	Sequence 775, App
9	20	100.0	20	10 US-09-954-987B-86	Sequence 86, Appl
10	20	100.0	20	11 US-09-776-479-775	Sequence 775, App
11	20	100.0	20	13 US-10-023-909A-36	Sequence 36, Appl
12	20	100.0	20	14 US-10-112-653-748	Sequence 748, App
13	20	100.0	20	14 US-10-017-995-775	Sequence 775, App
14	20	100.0	20	14 US-10-300-247-36	Sequence 36, Appl
15	20	100.0	20	15 US-10-161-229-38	Sequence 38, Appl
16	20	100.0	20	16 US-10-187-264A-33	Sequence 33, Appl
17	20	100.0	20	16 US-10-265-072-85	Sequence 85, Appl
18	20	100.0	20	16 US-10-306-522-33	Sequence 33, Appl
19	20	100.0	20	17 US-10-314-578-775	Sequence 775, App
20	20	100.0	20	17 US-10-434-696-36	Sequence 36, Appl
21	20	100.0	20	18 US-10-373-381-31	Sequence 31, Appl
22	20	100.0	20	18 US-10-719-493-33	Sequence 33, Appl
23	20	100.0	20	19 US-10-627-331-33	Sequence 33, Appl
24	20	100.0	20	19 US-10-666-733-36	Sequence 36, Appl
25	20	100.0	20	19 US-10-743-625-38	Sequence 38, Appl
26	20	100.0	20	19 US-10-769-282-38	Sequence 38, Appl
27	20	100.0	20	19 US-10-817-165-38	Sequence 38, Appl
28	20	100.0	20	20 US-10-877-407-40	Sequence 40, Appl
29	20	100.0	20	20 US-10-877-369-31	Sequence 31, Appl
30	20	100.0	20	20 US-10-816-220-36	Sequence 36, Appl
31	20	100.0	20	20 US-10-831-778-775	Sequence 775, App
32	20	100.0	20	20 US-10-876-892-31	Sequence 31, Appl
33	20	100.0	20	20 US-10-876-965-31	Sequence 31, Appl
34	20	100.0	20	20 US-10-888-886-36	Sequence 36, Appl
35	20	100.0	20	21 US-10-847-642-38	Sequence 38, Appl
36	20	100.0	20	21 US-10-888-785-38	Sequence 38, Appl
37	20	100.0	20	21 US-10-649-584-49	Sequence 49, Appl
38	20	100.0	20	21 US-10-831-775-36	Sequence 36, Appl
39	20	100.0	20	21 US-10-888-449-38	Sequence 38, Appl
40	20	100.0	20	21 US-10-894-862-40	Sequence 40, Appl
41	20	100.0	20	21 US-10-894-657-40	Sequence 40, Appl
42	20	100.0	20	21 US-10-884-852-38	Sequence 38, Appl
43	20	100.0	20	21 US-10-613-916-38	Sequence 38, Appl
44	20	100.0	20	21 US-10-627-413-33	Sequence 33, Appl
45	20	100.0	20	21 US-10-921-086-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1

US-09-824-468-43
; Sequence 43, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence

US-09-824-468-43

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGTGCT 20

db 1 TCCATGCCCGTCCCTGATGCT 20

RESULT 2

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US-09-800-266A-36
; Sequence 36, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid
; TITLE OF INVENTION: Cancer Medicament Compositions
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-36

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Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGCCGGTCTGATGCT 20
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Db 1 TCCATGCCGGTCTGATGCT 20
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RESULT 3

US-09-895-007A-36
; Sequence 36, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-36

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Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGCCGGTCTTGATGCT 20
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Db 1 TCCATGCCGGTCTTGATGCT 20

RESULT 4

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US-09-920-313-36
; Sequence 36, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-36

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Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred.No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGCCGGTCCTGATGCT 20
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db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 5

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US-09-888-326-585
; Sequence 585, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 585
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-585

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Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20: Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 TCCATGCCGGTCTCTGATGCT 20
|||
pb 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 6

US-09-818-918-38
; Sequence 38, Application US/09818918
; Publication No. US20030050261A1
: GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-38

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 7

US-09-931-583-49
; Sequence 49, Application US/09931583
; Publication No. US20030050263A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-49

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 8

US-09-776-479-775
; Sequence 775, Application US/09776479
; Publication No. US20030087848A1

; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-775

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 9

US-09-954-987B-86
; Sequence 86, Application US/09954987B
; Publication No. US20030104523A1

; GENERAL INFORMATION:

; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-86

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 10

US-09-776-479-775
; Sequence 775, Application US/09776479

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; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-775
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Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 TCCATGCCGGTCCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCCTGATGCT 20
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```
RESULT 11
US-10-023-909A-36
; Sequence 36, Application US/10023909A
; Publication No. US20020164341A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/023,909A
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-023-909A-36
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```
Query Match      100.0%; Score 20; DB 13; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 TCCATGCCGGTCCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCCTGATGCT 20
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```
RESULT 12
US-10-112-653-748
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; Sequence 748, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060 (AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 748
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-748
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```
Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 TCCATGCCGGTCCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCCTGATGCT 20
```

```
RESULT 13
US-10-017-995-775
; Sequence 775, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-775
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```
Query Match      100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 TCCATGCCGGTCCTGATGCT 20
        |||||
Db      1 TCCATGCCGGTCCTGATGCT 20
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```
RESULT 14
US-10-300-247-36
; Sequence 36, Application US/10300247
; Publication No. US20030091599A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL
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; CURRENT APPLICATION NUMBER: US/10/300,247
; CURRENT FILING DATE: 2002-11-20
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-36

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 15

US-10-161-229-38
; Sequence 38, Application US/10161229
; Publication No. US20030100527A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules for
; TITLE OF INVENTION: Activating Dendritic Cells
; FILE REFERENCE: C01039/70061
; CURRENT APPLICATION NUMBER: US/10/161,229
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: US 09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-161-229-38

Query Match 100.0%; Score 20; DB 15; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-38
Perfect score: 20
Sequence: 1 tccatgccggtcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	20	100.0	20	3 US-08-738-652-38	Sequence 38, Appl
2	20	100.0	20	3 US-09-286-098-43	Sequence 43, Appl
3	20	100.0	20	3 US-08-960-774-33	Sequence 33, Appl
4	20	100.0	20	3 US-09-325-193A-36	Sequence 36, Appl
5	20	100.0	20	3 US-09-191-170-38	Sequence 38, Appl
6	20	100.0	20	4 US-09-337-619-33	Sequence 33, Appl
7	18.4	92.0	20	1 US-08-436-714-7	Sequence 7, Appli
8	18.4	92.0	20	1 US-08-442-705-7	Sequence 7, Appli
9	18.4	92.0	20	1 US-08-332-829-7	Sequence 7, Appli
10	18.4	92.0	20	3 US-08-386-063-21	Sequence 21, Appl
11	18.4	92.0	20	3 US-08-386-063-22	Sequence 22, Appl
12	18.4	92.0	20	3 US-08-386-063-21	Sequence 21, Appl
13	18.4	92.0	20	3 US-08-386-063-22	Sequence 22, Appl
14	18.4	92.0	20	3 US-08-738-652-31	Sequence 31, Appl
15	18.4	92.0	20	3 US-08-738-652-32	Sequence 32, Appl
16	18.4	92.0	20	3 US-08-738-652-33	Sequence 33, Appl
17	18.4	92.0	20	3 US-08-738-652-34	Sequence 34, Appl
18	18.4	92.0	20	3 US-08-738-652-37	Sequence 37, Appl
19	18.4	92.0	20	3 US-08-738-652-39	Sequence 39, Appl
20	18.4	92.0	20	3 US-08-738-652-40	Sequence 40, Appl
21	18.4	92.0	20	3 US-09-286-098-21	Sequence 21, Appl
22	18.4	92.0	20	3 US-09-286-098-22	Sequence 22, Appl
23	18.4	92.0	20	3 US-09-286-098-23	Sequence 23, Appl
24	18.4	92.0	20	3 US-09-286-098-42	Sequence 42, Appl
25	18.4	92.0	20	3 US-09-286-098-44	Sequence 44, Appl
26	18.4	92.0	20	3 US-09-286-098-45	Sequence 45, Appl
27	18.4	92.0	20	3 US-08-960-774-28	Sequence 28, Appl

28	18.4	92.0	20	3 US-08-960-774-29	Sequence 29, Appl
29	18.4	92.0	20	3 US-08-960-774-34	Sequence 34, Appl
30	18.4	92.0	20	3 US-08-960-774-35	Sequence 35, Appl
31	18.4	92.0	20	3 US-09-325-193A-17	Sequence 17, Appl
32	18.4	92.0	20	3 US-09-325-193A-18	Sequence 18, Appl
33	18.4	92.0	20	3 US-09-325-193A-35	Sequence 35, Appl
34	18.4	92.0	20	3 US-09-325-193A-37	Sequence 37, Appl
35	18.4	92.0	20	3 US-09-325-193A-38	Sequence 38, Appl
36	18.4	92.0	20	3 US-09-191-170-20	Sequence 20, Appl
37	18.4	92.0	20	3 US-09-191-170-21	Sequence 21, Appl
38	18.4	92.0	20	3 US-09-191-170-22	Sequence 22, Appl
39	18.4	92.0	20	3 US-09-191-170-23	Sequence 23, Appl
40	18.4	92.0	20	3 US-09-191-170-39	Sequence 39, Appl
41	18.4	92.0	20	3 US-09-191-170-40	Sequence 40, Appl
42	18.4	92.0	20	4 US-09-337-619-28	Sequence 28, Appl
43	18.4	92.0	20	4 US-09-337-619-29	Sequence 29, Appl
44	18.4	92.0	20	4 US-09-337-619-34	Sequence 34, Appl
45	18.4	92.0	20	4 US-09-337-619-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-38
; Sequence 38, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-38

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTGTGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGCCGGTCTGTGCT 20

RESULT 2
US-09-286-098-43
; Sequence 43, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0

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; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-43

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGCCGGTCCTGATGCT 20
      |||||
Db      1 TCCATGCCGGTCCTGATGCT 20

RESULT 3
US-08-960-774-33
; Sequence 33, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-33

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGCCGGTCCTGATGCT 20
      |||||
Db      1 TCCATGCCGGTCCTGATGCT 20

RESULT 4
US-09-325-193A-36
; Sequence 36, Application US/09325193A
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; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-36

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGCCGGTCCTGATGCT 20
      |||||
Db      1 TCCATGCCGGTCCTGATGCT 20

RESULT 5
US-09-191-170-38
; Sequence 38, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-38

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGCCGGTCCTGATGCT 20
      |||||
Db      1 TCCATGCCGGTCCTGATGCT 20
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RESULT 6
US-09-337-619-33
; Sequence 33, Application US/09337619
; Patent NO. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-33

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Query Match      100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGCCCGGTCTGATGCT 20
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Db 1 TCCATGCCCGGTCTGATGCT 20

RESULT 7
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

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Query Match	92.0%;	Score 18.4;	DB 1;	Length 20;
Best Local Similarity	95.0%;	Pred. No. 15;		
Matches 19; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy 1 TCCATGCCGGTCCCTGATGCT 20
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Db 1 TCCATGTCGGTCCCTGATGCT 20
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RESULT 8
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGCCGGTCCTGATGCT 20
        ||||| ||||| ||||| |||||
Db      1  TCCATGTCGGTCCTGATGCT 20

RESULT 9
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide

```

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; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCTGATGCT 20

RESULT 10
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-22

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCTGATGCT 20

RESULT 12
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-21
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; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCTGATGCT 20

RESULT 11
US-08-386-063-22
; Sequence 22, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-22

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCTGATGCT 20

RESULT 12
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
;
US-08-386-063-22
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; APPLICANT: Arthur M. Krieg, M.D.
 ; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
 ; NUMBER OF SEQUENCES: 27
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: LAHIVE & COCKFIELD
 ; STREET: 60 STATE STREET, SUITE 510
 ; CITY: BOSTON
 ; STATE: MASSACHUSETTS
 ; COUNTRY: USA
 ; ZIP: 02109-1875
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: ASCII text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/386,063
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: ARNOLD, BETH E.
 ; REGISTRATION NUMBER: 35,430
 ; REFERENCE/DOCKET NUMBER: UIZ-013CP
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617)227-7400
 ; TELEFAX: (617)227-5941
 ; INFORMATION FOR SEQ ID NO: 21:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 20 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA
 ; US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
 Best Local Similarity 95.0%; Pred. No. 15;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
 Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 13
 US-08-386-063-22
 ; Sequence 22, Application US/08386063
 ; Patent No. 6194388
 ; GENERAL INFORMATION:
 ; APPLICANT: Arthur M. Krieg, M.D.
 ; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
 ; NUMBER OF SEQUENCES: 27
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: LAHIVE & COCKFIELD
 ; STREET: 60 STATE STREET, SUITE 510
 ; CITY: BOSTON
 ; STATE: MASSACHUSETTS
 ; COUNTRY: USA
 ; ZIP: 02109-1875
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: ASCII text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/386,063
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: ARNOLD, BETH E.
 ; REGISTRATION NUMBER: 35,430
 ; REFERENCE/DOCKET NUMBER: UIZ-013CP
 ; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400
 ; TELEFAX: (617)227-5941
 ; INFORMATION FOR SEQ ID NO: 22:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 20 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA
 ; US-08-386-063-22

Query Match 92.0%; Score 18.4; DB 3; Length 20;
 Best Local Similarity 95.0%; Pred. No. 15;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
 Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 14
 US-08-738-652-31
 ; Sequence 31, Application US/08738652B
 ; Patent No. 6207646
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; FILE REFERENCE: C1039/7004 HCL
 ; CURRENT APPLICATION NUMBER: US/08/738,652B
 ; CURRENT FILING DATE: 1996-10-30
 ; EARLIER APPLICATION NUMBER: US 08/276,358
 ; EARLIER FILING DATE: 1994-07-15
 ; EARLIER APPLICATION NUMBER: US 08/386,063
 ; EARLIER FILING DATE: 1995-02-07
 ; NUMBER OF SEQ ID NOS: 55
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 31
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide
 ; US-08-738-652-31

Query Match 92.0%; Score 18.4; DB 3; Length 20;
 Best Local Similarity 95.0%; Pred. No. 15;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
 Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
 US-08-738-652-32
 ; Sequence 32, Application US/08738652B
 ; Patent No. 6207646
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; FILE REFERENCE: C1039/7004 HCL
 ; CURRENT APPLICATION NUMBER: US/08/738,652B
 ; CURRENT FILING DATE: 1996-10-30
 ; EARLIER APPLICATION NUMBER: US 08/276,358
 ; EARLIER FILING DATE: 1994-07-15
 ; EARLIER APPLICATION NUMBER: US 08/386,063
 ; EARLIER FILING DATE: 1995-02-07
 ; NUMBER OF SEQ ID NOS: 55
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 32
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence

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; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-32

Query Match.          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCCATGCCGGTCCTGATGCT 20
        ||||| ||||| ||||| |||||
Db       1 TCCATGCTGGTCCTGATGCT 20
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Search completed: July 27, 2005, 18:00:02
Job time : 77 secs

GenCore version 5.1.6
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OM nucleic - nucleic search., using sw model .

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-37
Perfect score: 20
Sequence: 1 tccatgctcggtcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	ID	Description
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2	20	100.0	20	9 US-09-824-468-22	Sequence 22, Appl
3	20	100.0	20	9 US-09-824-468-23	Sequence 23, Appl
4	20	100.0	20	9 US-09-824-468-42	Sequence 42, Appl
5	20	100.0	20	9 US-09-800-266A-17	Sequence 17, Appl
6	20	100.0	20	9 US-09-800-266A-18	Sequence 18, Appl
7	20	100.0	20	9 US-09-800-266A-35	Sequence 35, Appl

8	20	100.0	20	9 US-09-895-007A-17	Sequence 17, Appl
9	20	100.0	20	9 US-09-895-007A-18	Sequence 18, Appl
10	20	100.0	20	9 US-09-895-007A-35	Sequence 35, Appl
11	20	100.0	20	9 US-09-920-313-17	Sequence 17, Appl
12	20	100.0	20	9 US-09-920-313-18	Sequence 18, Appl
13	20	100.0	20	9 US-09-920-313-35	Sequence 35, Appl
14	20	100.0	20	10 US-09-415-142-21	Sequence 21, Appl
15	20	100.0	20	10 US-09-888-326-63	Sequence 63, Appl
16	20	100.0	20	10 US-09-888-326-603	Sequence 603, App
17	20	100.0	20	10 US-09-888-326-604	Sequence 604, App
18	20	100.0	20	10 US-09-818-918-31	Sequence 31, Appl
19	20	100.0	20	10 US-09-818-918-33	Sequence 33, Appl
20	20	100.0	20	10 US-09-818-918-34	Sequence 34, Appl
21	20	100.0	20	10 US-09-818-918-37	Sequence 37, Appl
22	20	100.0	20	10 US-09-931-583-21	Sequence 21, Appl
23	20	100.0	20	10 US-09-931-583-54	Sequence 54, Appl
24	20	100.0	20	10 US-09-776-479-389	Sequence 389, App
25	20	100.0	20	10 US-09-776-479-395	Sequence 395, App
26	20	100.0	20	10 US-09-776-479-463	Sequence 463, App
27	20	100.0	20	10 US-09-776-479-466	Sequence 466, App
28	20	100.0	20	10 US-09-776-479-573	Sequence 573, App
29	20	100.0	20	10 US-09-954-987B-93	Sequence 93, Appl
30	20	100.0	20	10 US-09-874-991C-35	Sequence 35, Appl
31	20	100.0	20	11 US-09-874-991C-101	Sequence 101, App
32	20	100.0	20	11 US-09-874-991C-124	Sequence 124, App
33	20	100.0	20	11 US-09-874-991C-152	Sequence 152, App
34	20	100.0	20	11 US-09-874-991C-173	Sequence 173, App
35	20	100.0	20	11 US-09-874-991C-198	Sequence 198, App
36	20	100.0	20	11 US-09-874-991C-414	Sequence 414, App
37	20	100.0	20	11 US-09-874-991C-433	Sequence 433, App
38	20	100.0	20	11 US-09-776-479-389	Sequence 389, App
39	20	100.0	20	11 US-09-776-479-395	Sequence 395, App
40	20	100.0	20	11 US-09-776-479-463	Sequence 463, App
41	20	100.0	20	11 US-09-776-479-466	Sequence 466, App
42	20	100.0	20	11 US-09-776-479-573	Sequence 573, App
43	20	100.0	20	13 US-10-023-909A-17	Sequence 17, Appl
44	20	100.0	20	13 US-10-023-909A-18	Sequence 18, Appl
45	20	100.0	20	13 US-10-023-909A-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1
US-09-466-320-24
; Sequence 24, Application US/09466320
; Patent No. US20020025939A1
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick
; TITLE OF INVENTION: Chorionic Gonadotropin DNA Vaccines and
; TITLE OF INVENTION: Methods
; FILE REFERENCE: 0450-0026.30
; CURRENT APPLICATION NUMBER: US/09/466,320
; CURRENT FILING DATE: 1999-12-17
; EARLIER APPLICATION NUMBER: US 60/112,910
; EARLIER FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: vector sequence
US-09-466-320-24

Query Match	100.0%	Score 20;	DB 9;	Length 20;
Best Local Similarity	100.0%	Pred. No. 4.3;		
Matches	20;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
Qy	1	TCCATGTCGGTCCTCGATGCT	20	
Db	1	TCCATGTCGGTCCTCGATGCT	20	

RESULT 2
US-09-824-468-22
; Sequence 22, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-824-468-22

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 3
US-09-824-468-23
; Sequence 23, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-09-824-468-23

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

Db 1 TCCATGTCGGTCCTGATGCT 20
RESULT 4
US-09-824-468-42
; Sequence 42, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-42

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 5
US-09-800-266A-17
; Sequence 17, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-17

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 6
US-09-800-266A-18

; Sequence 18, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; PRIOR FILING DATE: 2001-03-05
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-18

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 7
US-09-800-266A-35
; Sequence 35, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-35

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 8
US-09-895-007A-17
; Sequence 17, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-17

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 9
US-09-895-007A-18
; Sequence 18, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-18

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-09-895-007A-35
; Sequence 35, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A

Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
US-09-888-326-63/c
; Sequence 63, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-63

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 20 TCCATGTCGGTCCTGATGCT 1

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Job time : 430.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-37
Perfect score: 20
Sequence: 1 tccatgtcggtcctgatgct 20
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents,NA:*
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2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	1 US-08-436-714-7	Sequence 7, Appli
2	20	100.0	20	1 US-08-442-705-7	Sequence 7, Appli
3	20	100.0	20	1 US-08-332-829-7	Sequence 7, Appli
4	20	100.0	20	3 US-08-386-063-21	Sequence 21, Appl
5	20	100.0	20	3 US-08-386-063-21	Sequence 21, Appl
6	20	100.0	20	3 US-08-738-652-31	Sequence 31, Appl
7	20	100.0	20	3 US-08-738-652-33	Sequence 33, Appl
8	20	100.0	20	3 US-08-738-652-34	Sequence 34, Appl
9	20	100.0	20	3 US-08-738-652-37	Sequence 37, Appl
10	20	100.0	20	3 US-09-286-098-22	Sequence 22, Appl
11	20	100.0	20	3 US-09-286-098-23	Sequence 23, Appl
12	20	100.0	20	3 US-09-286-098-42	Sequence 42, Appl
13	20	100.0	20	3 US-08-960-774-28	Sequence 28, Appl
14	20	100.0	20	3 US-09-325-193A-17	Sequence 17, Appl
15	20	100.0	20	3 US-09-325-193A-18	Sequence 18, Appl
16	20	100.0	20	3 US-09-325-193A-35	Sequence 35, Appl
17	20	100.0	20	3 US-09-191-170-20	Sequence 20, Appl
18	20	100.0	20	3 US-09-191-170-22	Sequence 22, Appl
19	20	100.0	20	3 US-09-191-170-23	Sequence 23, Appl
20	20	100.0	20	4 US-09-337-619-28	Sequence 28, Appl
C 21	20	100.0	25	4 US-09-396-196G-52295	Sequence 52295, A
C 22	20	100.0	25	4 US-09-396-196G-52296	Sequence 52296, A
C 23	20	100.0	1237	1 US-08-798-000-2	Sequence 2, Appli
C 24	20	100.0	2002	3 US-09-315-127-7	Sequence 7, Appli
C 25	20	100.0	3925	3 US-09-011-745-9	Sequence 9, Appli
26	20	100.0	8202	1 US-08-258-420-13	Sequence 13, Appl
27	19	95.0	19	3 US-09-286-098-20	Sequence 20, Appl

28	19	95.0	20	3 US-08-386-063-23	Sequence 23, Appl
29	19	95.0	20	3 US-08-386-063-24	Sequence 24, Appl
30	19	95.0	20	3 US-08-386-063-23	Sequence 23, Appl
31	19	95.0	20	3 US-08-386-063-24	Sequence 24, Appl
32	19	95.0	20	3 US-08-960-774-30	Sequence 30, Appl
33	19	95.0	20	3 US-08-960-774-31	Sequence 31, Appl
34	19	95.0	20	4 US-09-337-619-30	Sequence 30, Appl
35	19	95.0	20	4 US-09-337-619-31	Sequence 31, Appl
36	18.4	92.0	20	3 US-08-738-652-38	Sequence 38, Appl
37	18.4	92.0	20	3 US-08-738-652-39	Sequence 39, Appl
38	18.4	92.0	20	3 US-08-738-652-40	Sequence 40, Appl
39	18.4	92.0	20	3 US-08-738-652-41	Sequence 41, Appl
40	18.4	92.0	20	3 US-08-738-652-42	Sequence 42, Appl
41	18.4	92.0	20	3 US-08-738-652-43	Sequence 43, Appl
42	18.4	92.0	20	3 US-08-738-652-53	Sequence 53, Appl
43	18.4	92.0	20	3 US-09-030-701-4	Sequence 4, Appli
44	18.4	92.0	20	3 US-09-030-701-5	Sequence 5, Appli
45	18.4	92.0	20	3 US-09-286-098-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1

US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 2
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCCTGATGCT 20
|||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 3
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829

; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCCTGATGCT 20
|||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 4
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCCTGATGCT 20
|||

Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 5

US-08-386-063-21

Sequence 21, Application US/08386063

Patent No. 6194388

GENERAL INFORMATION:

APPLICANT: Arthur M. Krieg, M.D.

TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/386,063

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: ARNOLD, BETH E.

REGISTRATION NUMBER: 35,430

REFERENCE/DOCKET NUMBER: UIZ-013CP

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-386-063-21

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.98;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCCTGATGCT 20

Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 6

US-08-738-652-31

Sequence 31, Application US/08738652B

Patent No. 6207646

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7004 HCL

CURRENT APPLICATION NUMBER: US/08/738,652B

CURRENT FILING DATE: 1996-10-30

EARLIER APPLICATION NUMBER: US 08/276,358

EARLIER FILING DATE: 1994-07-15

EARLIER APPLICATION NUMBER: US 08/386,063

EARLIER FILING DATE: 1995-02-07

NUMBER OF SEQ ID NOS: 55

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 31

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-08-738-652-31

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.98;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCCTGATGCT 20

Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 7

US-08-738-652-33

Sequence 33, Application US/08738652B

Patent No. 6207646

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7004 HCL

CURRENT APPLICATION NUMBER: US/08/738,652B

CURRENT FILING DATE: 1996-10-30

EARLIER APPLICATION NUMBER: US 08/276,358

EARLIER FILING DATE: 1994-07-15

EARLIER APPLICATION NUMBER: US 08/386,063

EARLIER FILING DATE: 1995-02-07

NUMBER OF SEQ ID NOS: 55

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 33

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

NAME/KEY: modified base

LOCATION: (8)...(8)

OTHER INFORMATION: m5c

US-08-738-652-33

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.98;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCCTGATGCT 20

Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 8

US-08-738-652-34

Sequence 34, Application US/08738652B

Patent No. 6207646

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7004 HCL

CURRENT APPLICATION NUMBER: US/08/738,652B

CURRENT FILING DATE: 1996-10-30

EARLIER APPLICATION NUMBER: US 08/276,358

EARLIER FILING DATE: 1994-07-15

EARLIER APPLICATION NUMBER: US 08/386,063

EARLIER FILING DATE: 1995-02-07

NUMBER OF SEQ ID NOS: 55

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 34

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

NAME/KEY: modified_base

```
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-08-738-652-34

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGGTCCTGATGCT 20
      |||
Db      1 TCCATGTCGGTCCTGATGCT 20
      |||

RESULT 9
US-08-738-652-37
; Sequence 37, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGGTCCTGATGCT 20
      |||
Db      1 TCCATGTCGGTCCTGATGCT 20
      |||

RESULT 10
US-09-286-098-22
; Sequence 22, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
```

```
US-09-286-098-22

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGGTCCTGATGCT 20
      |||
Db      1 TCCATGTCGGTCCTGATGCT 20
      |||

RESULT 11
US-09-286-098-23
; Sequence 23, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-09-286-098-23

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGGTCCTGATGCT 20
      |||
Db      1 TCCATGTCGGTCCTGATGCT 20
      |||

RESULT 12
US-09-286-098-42
; Sequence 42, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-42
```

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 13
US-08-960-774-28
; Sequence 28, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-960-774-28

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 14
US-09-325-193A-17
; Sequence 17, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; UNMETHYLATED CpG DINUCLEOTIDE AS AN ADJUVANT

FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-17

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15
US-09-325-193A-18
; Sequence 18, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; UNMETHYLATED CpG DINUCLEOTIDE AS AN ADJUVANT
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-18

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCCTGATGCT 20

Search completed: July 27, 2005, 18:00:02
Job time : 77 secs

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